

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Grotendorst and Neff Art Unit: Unassigned
Parent Serial No.: 09/461,646 Examiner: Unassigned
Parent Filing Date: December 14, 1999
Serial No.: Unassigned
Filed: September 9, 2003
Title: CONNECTIVE TISSUE GROWTH FACTOR FRAGMENTS AND
METHODS AND USES THEREOF

Mail Stop PATENT APPLICATION

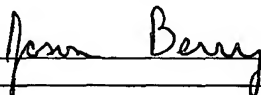
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 § CFR 1.97, Applicants bring to the Examiner's attention the related parent patent application, U.S. Serial No. 09/461,646, filed December 14, 1999, which is relied upon for an earlier filing date under 35 USC § 120. For the convenience of the Examiner, copies of the PTO Forms 892 and 1449 are enclosed.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

CERTIFICATION UNDER 37 CFR §1.10 "EXPRESS MAIL" Mailing Label Number: EV 318 738 191 US Date of Deposit: September 9, 2003	
I hereby certify that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" with sufficient postage on the date indicated above and is addressed to: Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.	
JASON BERRY (Name of Person Mailing Paper)	
(Signature) 	September 9, 2003 (Date)

In re Application of:
Grotendorst and Neff
Application No.: Unassigned
Filed: September 9, 2003
Page 2

PATENT
Attorney Docket No.: FIBRO1130-3

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement, because it is being filed prior to the receipt of a first office action on the merits of the above-captioned application. However, if any fee is required, authorization is hereby given to charge any fees associated with the filings submitted herewith, or credit any overpayment to Deposit Account No. 50-1355. A duplicate copy of this sheet is enclosed.

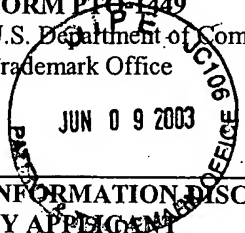
Respectfully submitted,

Date: September 9, 2003



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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office 	Docket No.: FIBR01130-2	Application No.: 09/461,646
	Applicants: CONNECTIVE TISSUE GROWTH FACTOR FRAGMENTS AND METHODS OF USES THEREOF	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: December 14, 1999	Group Art Unit: <div style="text-align: right;">RECEIVED</div>

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U.S. PATENT DOCUMENTS

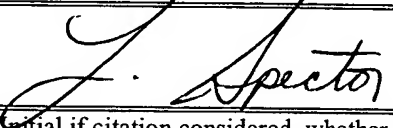
EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	TECH CENTER SUB-CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

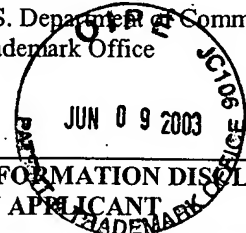
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

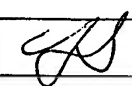
	AD	Steffen et al., "Characterization of Cell-Associated and Soluble Forms of Connective Tissue Growth Factor (CTGF) Produced by Fibroblast Cells In Vitro Growth Factors" <i>Harwood Academic Publishers GmbH</i> , Vol. 15, No. 3, pages 199-213, 1998.
	AE	Ball et al., "Characterization of 16- to 20-kilodalton (kDa) Connective Tissue Growth Factors (CTGFs) and Demonstration of Proteolytic Activity For 38-kDa CTGF in Pig Uterine Luminal Flushings", <i>Biology of Reproduction</i> , Vol. 59, No. 4, October 1998.
	AF	Shimo et al., Inhibition of Endogenous Expression of Connective Tissue Growth Factor by its Antisense Oligonucleotide and Antisense RNA Suppresses Proliferation and Migration of Vascular Endothelial Cells", <i>Journal of Biochemistry</i> , Vol. 124, No. 1, July 1998.


EXAMINER 	DATE CONSIDERED 8/14/03
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office 	Docket No.: FIBR01130-2	Application No.: 09/461,646
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicants: CONNECTIVE TISSUE GROWTH FACTOR FRAGMENTS AND METHODS OF USES THEREOF	
	Filing Date: December 14, 1999	Gr up Art Unit: 1647

	AG	Frazier et al., "Stimulation of Fibroblast Cell Growth, Matrix Production and Granulation Tissue Formation By Connective Tissue Growth Factor", <i>Journal of Investigative Dermatology</i> , Vol. 107, No. 3, 1996.
		<div style="text-align: right;"> RECEIVED JUN 10 2003 TECH CENTER 1600/2900 </div>

EXAMINER 	DATE CONSIDERED 8/14/03
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Form 1449

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office AUG 02 2001	Docket No.: FIBRO1130-2	Application No.: 09/461,646
	Applicants: Grotendorst and Neff	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: December 14, 1999	Group Art Unit: 1647

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U.S. PATENT DOCUMENTS


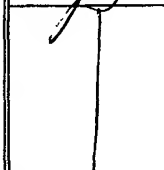

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EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AA	Mori, et al. "Role and Interaction of Connective Tissue Growth Factor with Transforming Growth Factor-B in Persistent Fibrosis: A Mouse Fibrosis Model," <i>Journal of Cellular Physiology</i> , 181:153-159 (1999).
	AB	Nakanishi, et al. "Cloning of mRNA Preferentially Expressed in Chondrocytes by Differential Display-PCR from a Human Chondrocytic Cell Line that is Identical with Connective Tissue Growth Factor (CTGF) mRNA," <i>Biochemical and Biophysical Research Communications</i> , 234:206-210 (1997).
	AC	Pawar, et al. "Differential Gene Expression in Migrating Renal Epithelial Cells After Wounding," <i>Journal of Cellular Physiology</i> , 165:556-565 (1995).

J. L. Spector 7/12/01

Paper # 17

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. FIBRO1130-2	Serial No.: 09/461,646
	Applicant(s): Grotendorst et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: December 14, 1999	Group Art Unit: 1646

U.S. PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATIO N (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

/	AW	Nakanishi et al., "Cloning of a mRNA Preferentially Expressed in Chondrocytes by Differential Display-PCR from a Human Chondrocytic Cell Line That Is Identical with Connective Tissue Growth Factor (CTGF) mRNA," <i>Biochemical and Biophysical Research Communications</i> , 234:206-210 (1997)
/	AX	Pawar et al., "Differential Gene Expression in Migrating Renal Epithelial Cells After Wounding," <i>Journal of Cellular Physiology</i> , 165:556-565 (1995)

Also cited in paper #17

EXAMINER <i>J. Spector</i>	DATE CONSIDERED <i>2/12/01</i>
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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. FIBRO130-2	Serial No.: 09/461,646
	Applicant(s) Grotendorst and Neff	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: December 14, 1999	Group Art Unit: 1646


U.S. PATENT DOCUMENTS


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FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	Brigstock et al., "Purification and Characterization of Novel Heparin-binding Growth Factors in Uterine Secretory Fluids," <i>The Journal of Biological Chemistry</i> 272(32):20275-20282 (August 8, 1997)

EXAMINER 	DATE CONSIDERED 8/12/01
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Paper #7

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. FIBRO1130-2	Serial No.: 09/461,646
	Applicant(s): Grotendorst et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: December 14, 1999	Group Art Unit: 1646 / 1647

U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>AS</i>	AA	5,408,040	4/18/95				
	AB	5,585,270 *	12/17/96				
	AC	5,783,187 *	7/21/98				
	AD	5,770,209	6/23/98				
	AE	5,837,258	11/17/98				
<i>V</i>	AF	5,916,756 *	6/29/99				

* Copy of this Patent is not enclosed as it is cumulative of Patent No. 5,408,040.

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION (YES/NO)
<i>AS</i>	AG	WO 96/38172	12/5/96				
<i>AS</i> <i>↓</i>	AH	WO 96/38168	12/5/96				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

<i>AS</i>	AI	Campochiaro et al., <i>Retinal Pigment Epithelial Cells Produce PDGF-like Proteins and Secrete them into their Media</i> *, Exp. Eye Res. Vol. 49, pp. 217-227, 1989.
<i>AS</i> <i>↓</i>	AJ	Frazier et al., <i>Expression of Connective Tissue Growth Factor mRNA in the Fibrous Stroma of Mammary Tumors</i> , Int. J. Biochem. Cell Bio., Vol. 29, No. 1, pp. 153-161, 1997.
<i>AS</i> <i>↓</i>	AK	Igarashi et al., <i>Connective Tissue Growth Factor Gene Expression in Tissue Sections From Localized Scleroderma, Keloid, and Other Fibrotic Skin Disorders</i> , The Journal of Investigative Dermatology, Vol. 106, No. 4, pp. 729-733, April 1996.

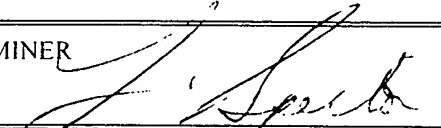
EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>10/15/01</i>
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Paper #5

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office	Docket No. FIBRO1130-2	Serial No.: 09/461,646
	Applicant(s): Grotendorst et al.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date: December 14, 1999	Group Art Unit: 1646 / 6-4-7

JS	AL	Igarashi et al., <i>Regulation of Connective Tissue Growth Factor Gene Expression in Human Skin Fibroblasts and During Wound Repair</i> , Molecular Biology of the Cell, Vol. 4, pp. 637-645, Ju 1993.
↓	AM	Igarashi et al., <i>Significant Correlation Between Connective Tissue Growth Factor Gene Expression and Skin Scleroris in Tissue Sections from Patients with Systemic Sclerosis</i> , The Journal of Investigative Dermatology, Vol. 105, No. 2, pp. 280-284, August 1995.
↓	AN	Kikuchi et al., <i>Growth Regulation in Scleroderma Fibroblasts: Increased Response to Transforming Growth Factor-β1</i> , The Journal of Investigative Dermatology, Vol. 105, No. 1, pp. 128-132, July 1995.
↘	AO	Mori et al., <i>Role and Interaction of Connective Tissue Growth Factor With Transforming Growth Factor-β in Persistent Fibrosis: A Mouse Fibrosis Model</i> , Journal of Cellular Physiology Vol. 181, pp. 153-159, 1999. <i>Page # 17</i>
JS	AP	Murphy et al., <i>Suppression Substrative Hybridization Identifies High Glucose Levels as a Stimulus for Expression of Connective Tissue Growth Factor and Other Genes in Human Mesangial Cells</i> , The Journal of Biological Chemistry, Vol. 274, No. 9, pp. 5830-5834, Issue c February 26, 1999.
↓	AQ	Oemar et al., <i>Human Connective Tissue Growth Factor Is Expressed in Advanced Atherosclerotic Lesions</i> , Circulation, Vol. 95, No. 4, pp. 831-839, February 18, 1997.
↓	AR	Ohnishi et al., <i>Increased Expression of Connective Tissue Growth Factor in the Infarct Zone of Experimentally Induced Myocardial Infarction in Rats</i> , J. Mol. Cell Cardio., Vol. 30, pp. 2411-2422, 1998.
↓	AS	Ryseck et al., <i>Structure, Mapping, and Expression of fisp-12 a Growth Factor-Inducible Gene Encoding a Secreted Cysteine-rich Protein</i> , Cell Growth & Differentiation, Vol. 2, pp. 225-233, May 1991.
↓	AT	Shimo et al., <i>Connective Tissue Growth Factor Induces the Proliferation, Migration, and Tube Formation of Vascular Endothelial Cells In Vitro, and Angiogenesis In Vivo</i> , J. Biochem. Vol. 126, pp. 137-145, 1999.
↓	AU	Shimokado et al., <i>A Significant Part of Macrophage-Derived Growth Factor Consists of at Least Two Forms of PDGF</i> , Cell, Vol 43, pp. 277-286, November 1985.
↓	AV	Wenger et al., <i>Expression and differential regulation of connective tissue growth factor in pancreatic cancer cells</i> , CTGF and pancreatic cancer, pp. 1073-1080.

EXAMINER 	DATE CONSIDERED 10/17/01
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